CONTENTS OF VOL. 203

ORIGINAL ARTICLES.

No. 1—January.

The Vascular and Cellular Dynamics of Shock. By Virgil H. Moon, M.D. 1

Observations on the Etiologic Relationship of Achylia Gastrica to Pernicious Anemia. IX. Difference in Site of Secretion of Intrinsic Factor in the Hog and in the Human Stomach. By Herbert J. Fox, M.D., and William B. Castle, M.D. 18

Relationship Between the Spleen and the Morphologic Picture of Blood Regeneration. By W. O. Cruz, M.D., and F. S. Robscheit-Robbins, Ph.D. 28

The Heart in Sickle Cell Anemia. By Harry F. Klinefelter, M.D. . 34

A Note on Cardiac Murmurs. Recommendation for a Revised Terminology. By Paul D. White, M.D., F. Dennette Adams, M.D., and Donald Craib, M.D. 52

The Early Diagnosis of Syphilitic Aortitis. By S. Boharas, M.D., Lester Hollander, M.D., and Maurice Goldsmith, M.D. 54

Histologic Kidney Changes in the Common Acute Infectious Diseases. By Milton Kannerstein, M.D. 65

Acute Porphyria. By Samuel Nesbitt, M.D., Ph.D. (in Med.), and Charles H. Watkins, M.D., Ph.D. 74

Phosphorus Metabolism of Blood of Patients With Leukemia and Polycythemia. By L. A. Erf, M.D., and L. W. Tuttle 83

May the Disease Complex That Includes Mega-esophagus (Cardiospasm), Megacolon and Mega-ureter be Caused by Chronic Vitamin B_1 Deficiency? By Eduardo Etzel, M.D. 87

Spontaneous Beriberi of the Monkey as Compared With Experimental Avitaminosis. By C. P. Leblond, M.D., and J. Chaulin-Servinière, Ph.D. 100

Vitamin B_1 Not Helpful in Protracted Insulin Shock. By Esther Somerfeld-Ziskind, M.A., M.D., Eugene Ziskind, M.D., Lavon Dalton and Virginia Buck 110

Studies of the B Vitamins in the Human Subject. III. The Response of Cheilosis to Vitamin Therapy. By Thomas E. Machella, M.D. . 114

A Post-repeal Study of 300 Chronic Alcoholics. By James V. Lowry, M.D., and Franklin G. Ebaugh, M.D. 120

No. 2—February.

The Use of Sulfanilamide in the Treatment of Acute Glomerular Nephritis. By Robert H. Williams, M.D., Warfield T. Longcope, M.D., and Charles A. Janeway, M.D. 157

The Effect of Various Sulfonamides on Hemolytic Staphylococcus Measured With the Manometric Technique. By WALTER KEMPNER, M.D., C. SCHLAYER, PH.D., and PERCY SUMMERS, M.D. 172

Cavity Healing and Bronchial Occlusion. By WALTER PAGEL, M.D., and F. A. H. SIMMONDS, M.D. 177

Hypoprothrombinemia in Pernicious Anemia. By E. D. WARNER, M.D., and C. A. OWEN, M.D. 187

Influence of Active and Inactive Antianemic Principles Upon the Erythrocytes of the Immature Opossum (Didelphys Virginiana). By JOSEPH STASNEY, M.D., M.S., and EDWARD L. BURNS, M.D. 191

Syphilitic Aortic Insufficiency: The Asymptomatic Phase. By WALSH MCDERMOTT, M.D., RALPH R. TOMPSETT, M.D., and BRUCE WEBSTER, M.D. 202

Prolongation of the P–R Interval in Patients With Paroxysmal Auricular Fibrillation and Flutter Following Myocardial Infarction. By MAX J. KLAINER, M.D., and MARK D. ALTSCHULE, M.D. 215

A Justification for the Increasing Use of Electrocardiography in Hospital Practice. By ARTHUR J. GEIGER, M.D., MASSIMO CALABRESI, M.D., and LOREN F. BLANEY, M.D. 219

The Danger of Procrastination in Biliary Tract Disease Until Irreversible Liver and Kidney Changes Occur. By ABRAHAM O. WILENSKY, M.D. 231

Agnogenic Congenital Clubbing of the Fingers and Toes. By H. B. THOMAS, M.D. 241

The Standardization of the Congo Red Test for Amyloidosis. By ALBERT TARAN, B.A., and ALBERT ECKSTEIN, M.D. 246

The Effect of Diet and Meals on the Maximum Urea Clearance. By L. P. LONGLEY, M.D., and MAX MILLER, M.D. 253

Bronchopneumonia of Unknown Etiology in a Girls' School. By WORTH B. DANIELS, M.D. 263

Correlation Between Clinical and *in Vitro* Reactions of Gonococcus Strains to Sulfathiazole. (A Preliminary Report.) By ALFRED COHN, M.D., ARTHUR STEER, M.D., and IRMA SEIJO, B.S. 276

The Formol-gel Test in Rheumatic Fever. By J. SCOTT BUTTERWORTH, M.D., and CHARLES A. POINDEXTER, M.D. 278

No. 3—March.

Auto-hemolysinic Anemia With Auto-agglutination: Improvement After Splenectomy. By EDWARD H. REISNER, JR., M.D., and MENNASCH KALKSTEIN, M.D. 313

Chronic Leukemia in Three Sisters. By JOHN H. HORNBAKER, M.D. . 322

The Normal Plasma Coagulation Time. By GARNETT CHENEY, M.D. . 325

The Effect of Parity on the Average Blood Pressure and on the Incidence of Hypertension. By C. E. ISENHOUR, M.A., K. KUDER, M.D., and L. V. DILL, M.D. 333

Primary Thrombosis of the Axillary and Subclavian Vein. By LOUIS PELNER, M.D., and ISIDOR COHN, M.D. 340

The Effect of a Barbituric Acid Derivative on the Lobeline Circulation Time. By KURT BERLINER, M.D., and ALFRED LILIENFELD, M.D. 349

Electric Convulsion Therapy in Psychoses. By Douglas Goldman, M.D., and E. A. Baber, M.D. 354

The Assimilation Rate of Intravenously Injected Glucose in Hospital Patients. By James C. Cain, M.D., and William P. Belk, M.D., F.A.C.P. 359

Fatal Hyperinsulinism With Cerebral Lesions Due to Pancreatic Adenoma. By A. J. Kerwin, M.D. 363

The Prognosis of Pneumococcic Meningitis Treated With Chemotherapy. By G. Hollander, M.D. 370

Pneumococcal Capsular Polysaccharide and Antibody in Pleural Exudates. By Paul F. de Gara, M.D., Jessie G. M. Bullowa, M.D., and Samuel C. Bukantz, M.D. 376

A Method of Determining the Probability of Constitutional Reactions During Treatment of the Ragweed Hay Fever Patient. By William B. Sherman, M.D., and Selian Hebald, M.D. 383

Studies of the B Vitamins in the Human Subject. IV. Mental Changes in Experimental Deficiency. By Harriet E. O'Shea, Ph.D., and K. O'Shea Elsom, M.D., with the technical assistance of Ruth V. Higbe, M.A. 388

Chancre of the Gum. A Case Report. By Joseph F. Sadusk, Jr., M.D., and Bert G. Anderson, D.D.S. 397

The Duration of Action and the Activity of Different Size Doses of Protamine Zinc Insulin. By Helen Eastman Martin, M.D., and Paul O. Greeley, M.D. 402

Observations on the Oral Administration of Citrated Blood in Man. II. The Effect on the Stools. By Leon Schiff, M.D., Richard J. Stevens, M.D., Nathan Shapiro, M.D., and Sander Goodman, M.D. 409

Calcium Bile. A Clinical and Pathological Study. By Marsh McCall, M.D., and Allan Tuggle, M.D. 413

The Diagnosis, Incidence, and Significance of Essential Achlorhydria. By Asher Winkelstein, M.D. 419

Immediate Feeding *Versus* Initial Starvation in the Treatment of Bleeding Peptic Ulcer. By J. P. Eichhorn, M.D. 428

No. 4—April.

Reduction of Industrial Absenteeism by Preseasonal Immunization Against Catarrhal Illness. By M. R. Brady, M.D. 469

Infarction in Heart Disease. By Curtis F. Garvin, M.D. 473

Hemoglobin and Plasma Proteins: Their Production, Utilization and Interrelation. By G. H. Whipple, M.D. 477

Diabetes Mellitus and Tuberculosis. By Morton F. Mark, M.D., Herman O. Mosenthal, M.D., and Flora Liu, M.D. 490

The Histopathologic Prognosis of Salivary Gland Mixed Tumors. By Joseph McFarland, M.D., Sc.D. 502

Antemortem Diagnosis of Tumors of the Heart. By Joseph C. Doane, M.D., and Robert Pressman, M.D. 520

Conditioned Reflex Therapy of Alcoholic Addiction. V. Follow-up Report of 1042 Cases. By Walter L. Voegtlin, M.D., Frederick Lemere, M.D., William R. Broz, M.D., and Paul O'Hollaren, M.D. 525

Clinical Studies With the Aid of Radiophosphorus. II. The Retention of Radiophosphorus by Tissues of Patients Dead of Leukemia. By L. A. Erf, M.D. 529

An Objective Method of Determining Blood Velocity (Fluorescein Method). By David B. Fishback, M.D., Samuel A. Guttman, Ph.D., M.D., and Edwin B. Abramson, M.D. 535

Psychoneurotics Five Years Later. By Constance Friess, M.D., and Marjory J. Nelson, M.D. 539

The Treatment of Certain Muscular Atrophies With Vitamin E, With a Note on Diagnosis and the Electromyograms. By Henry R. Viets, M.D., E. H. Trowbridge, Jr., M.D., and T. E. Gundersen, M.D. 558

Dermatitis From Topical Application of 2-Methyl-1:4-Naphthoquinone (Synthetic Vitamin K Analogue). By R. C. Page, M.D., and Z. Bercovitz, M.D. 566

Studies of the B Vitamins in the Human Subject. V. The Normal Requirement for Thiamine; Some Factors Influencing Its Utilization and Excretion. By K. O'Shea Elsom, M.D., John G. Reinhold, Ph.D., Joseph T. L. Nicholson, M.D., and Charlotte Chornock, Ph.D. 569

A Comparison of the Bacteriostatic Effect of the Sulfonamide Drugs Upon the Growth of 25 Strains of Streptococcus Viridans. By Mary A. Poston, M.A., and Edward S. Orgain, M.D. 577

An Evaluation of Iontophoresis Using Different Vasodilating Drugs for Treatment of Rheumatoid Arthritis. By Charley J. Smyth, M.D., and R. H. Freyberg, M.D. 580

No. 5—May.

Hypertension Electrocardiograms Experimentally Produced and Anatomically Explained. I. Cor Pulmonale. By Jane Sands Robb, Sc.D., M.D., and Robert C. Robb, Sc.D., M.D. 625

Hypertension Electrocardiograms Experimentally Produced and Anatomically Explained. II. Left Ventricular Strain. By Jane Sands Robb, Sc.D., M.D., and Robert C. Robb, Sc.D., M.D. 634

Studies on the Distribution of Potential Concerned in the Formation of Electrocardiograms. By Charles C. Wolferth, M.D., Mary Miller Livezey, M.D., and Francis Clark Wood, M.D. 641

A Clinico-pathologic Correlation Between Hepatic Damage and the Plasma Prothrombin Concentration. By N. J. Sweet, M.D., S. P. Lucia, M.D., and P. M. Aggeler, M.D. 665

Plasma Amino-acid Levels in Health and in Measles, Scarlet Fever and Pneumonia. By Lee E. Farr, M.D., William C. McCarthy, M.D., and Thomas Francis, Jr., M.D. 668

Eosinophilic Granuloma and Certain Other Reticulo-endothelial Hyperplasias of Bone. A Comparison of Clinical, Radiologic, and Pathologic Features. By Paul Gross, M.D., and Harold W. Jacox, M.D. 673

The Toxicity of Fluorine in Dicalcium Phosphate. By Floyd DeEds, Ph.D. 687

The Respiration in Myasthenia Gravis. By Daniel Laszlo, M.D., and F. C. Redlich, M.D. 693

The Intestine and Chronic Arthritis. By Anthony Bassler, M.D., F.A.C.P., LL.D. 698

The Amount of Iodine in the Blood and Urine in Patients With Diabetes Insipidus. By HARRY BLOTNER, M.D. 708

Studies of the Expectorant Action of Iodides. By LOUIS TUFT, M.D., and NATHANIEL M. LEVIN, M.D. 717

The Diagnostic Value of the Takata-Ara Reaction. By THEO R. WAUGH, M.D., C.M., and RICHARD D. MCKENNA, M.D., C.M. 722

Activated Sterols and Calcium Salts in Treatment of Parathyroid Tetany. By ELMER L. SEVRINGHAUS, M.D. 726

Use of Sulfathiazole in Infectious Mononucleosis. By H. T. HOFFMAN, M.D., H. D. LEES, M.D., and B. I. COMROE, M.D. 731

An Improved Method of Obtaining Sustained Controlled Hyperpyrexia With Triple Typhoid Vaccine. By HARRY A. SOLOMON, M.D., and EUGENE SOMKIN, M.D. 736

Clinical Value of Digitalis in Hypertensive Heart Failure. I. With a Normal Rate and a Regular Rhythm. By NATHAN FLAXMAN, M.D. . 741

Clinical Value of Digitalis in Hypertensive Heart Failure. II. With Sinus Tachycardia. By NATHAN FLAXMAN, M.D. 747

No. 6—JUNE.

Myocarditis in Poliomyelitis. By OTTO SAPHIR, M.D., and SIMON A. WILE, M.D. 781

Age, Sex and Race Relationships of Auricular Fibrillation. By CURTIS F. GARVIN, M.D. 788

Coronary Thrombosis in a Young Diabetic. By NORMAN REITMAN, B.S., M.D., W. RUSSELL GREENWOOD, B.S., M.S., M.D., and JOSEPH H. KLER, B.A., M.D. 792

A Case of Brucella Endocarditis With Clinical, Bacteriologic, and Pathologic Findings. By WESLEY W. SPINK, M.D., LEONARD A. TITRUD, M.D., and PAUL KABLER, M.D. 797

Persistent Tachycardia and Pulse-Temperature Disproportion: Relation to Acute Myocardial Lesions. By JAMES R. LISA, M.D., CYRIL SOLOMON, M.D., and DAVID ECKSTEIN, M.D. 801

Frequency of Bilateral Renal Disease in Persistent Hypertension. By JOSEPH R. KAHN, M.D., and THOMAS C. LAIPPLY, M.D. 807

A Renal Concentration Test Employing Posterior Pituitary Extract. By WILLIAM A. SODEMAN, M.D., and HUGO T. ENGELHARDT, M.D. . 812

A Preliminary Report on the Treatment of Agranulocytosis With Sulfathiazole. By WILLIAM DAMESHEK, M.D., and LOUIS E. WOLFSON, M.D. 819

Abnormal Accumulations of Lymph Follicles in the Digestive Tract. By PETER GRUENWALD, M.D. 823

The Diagnosis of Multiple Myeloma by Sternal Aspiration. By LAWRENCE H. BEIZER, M.D., BYRON E. HALL, M.D., and HERBERT Z. GIFFIN, M.D. 829

The Action of the Antipernicious Anemia Principle on the Blood Picture of Opossum Pouch-young and Rat Embryos. By JULES H. LAST, PH.D., and EDWIN E. HAYS, M.S. 836

The Effect of Liver Extracts Upon Erythropoiesis in the Chick Embryo. By EDWIN E. HAYS, JULES H. LAST, and F. C. KOCH 843

Acetylphenylhydrazine Anemia. 2. Bile Pigment Elimination and New Hemoglobin Reconstruction in the Bile Fistula Dog. By Walter O. Cruz, M.D., William B. Hawkins, M.D., and George H. Whipple, M.D. 848

The Relation of Pernicious Anemia to Solar Radiation and Skin Cancer. By Frank L. Apperly, D.Sc., M.D. 854

The Treatment of Polycythemia Vera With Lead Compounds. By Ernest H. Falconer, M.D., C.M. 857

The Treatment of the Tuberculous Woman During Pregnancy. By E. S. Mariette, M.D., F.A.C.P., F.A.C.H.A., Leonard M. Larson, M.D., and J. C. Litzenberg, M.D., F.A.C.S. 866

Systemic Reactions to Mercurial Diuretics. By Edward M. Kline, M.D., and W. B. Seymour, M.D. 874

Inefficiency of Immune Globulin in the Prophylaxis of Measles During Adolescence. By J. Roswell Gallagher, M.D. 880

The Effect of Drugs on the Circulation in Normal Hands and Feet. By Hugh Montgomery, M.D. 882

NEW BOOKS AND NEW EDITIONS

Book Reviews and Notices 125, 283, 431, 590, 752, 891

New Books 132, 291, 435, 598, 758, 898

New Editions 133, 292, 436, 599, 758, 899

PROGRESS OF MEDICAL SCIENCE

Medicine 134

Pediatrics 900

Surgery 293

Ophthalmology 300

Pathology and Bacteriology 437

Preventive Medicine and Epidemiology 452

Gynecology and Obstetrics 906

Dermatology and Syphilology 608

Therapeutics 759

Oto-Rhino-Laryngology 600

Neurology and Psychiatry 147

Physiology 154, 309, 466, 776, 913